

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 11, 2013

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-9501280, issued to GASTAR EXPLORATION USA, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: M.W. SPENCER NO. 8

Farm Name: SPENCER, ALVA D., ESTATE

API Well Number: 47-9501280

Permit Type: Plugging
Date Issued: 12/11/2013

## **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **CONDITIONS**

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

Permit

WW-4B Rev. 2/01  Date: September 12, 2013
 Operator's Well Number M.W. Spencer No.8 3) API Well No: 47 -095

State

County

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

4)	WELL TYPE:	Oil	TION FOR A PE  X Gas as", Production	Х	Liquid Injec	tion		Waste Disp	_	allow	Х	
5)	LOCATION:	Elevation: District:	1102' McElroy	05	Watershed: County:		Creek		Quadrangle	Shirle		607
6)	WELL OPERA Address	229 W	Exploration, Ltd. 7. Main St., Suite 3 Sburg, WV 26301	01	494487685	7) DESIG	NATE	D AGENT_ Address	Mike M 229 W. Clarksb	Main St		
8)	OIL & GAS INS Name Address	SPECTOR To Joe Taylor 497 Claylio Ripley, WV				9) PLUGO Name Addres			ΓOR			
10)	WORK ORDER CASING	The work	order for the mann TD-2,161'		ngging this well NA	l is as follov	vs:					
	Unknown <u>LINERS</u>		Gel Plug No. 1 Freepoint, Cur Plug No. 2 Plug No. 3 Freepoint, Cur Plug No. 4	t & Pul 115 65 t & Pul	90 - 1940 1 Production ( 50 - 1050 50 - 550	ing (If Pres			)			
			Free point, cut a of any casi Fill Well Bore v Erect Monume	and pull ng left i with 6%	n well. Gel Between a			100 ft. ceme	nt plug at b	ottom		
		0 - 6	OGS MUST B A CEMENT :	NITH	NIC MICH	E THAN		Re	ceiv	bs		
lns	pector 24 hours	before pern	nitted work can co	ommen	ce.	-			otias of Oils	nd Gas	noiteation	v
	Work order app	roved by Ins	spector	1/2					Date <u>10</u>	-28-1	3	

#### WELL RECORD

**Operator:** Gastar Exploration, Ltd.

229 West Main Street Clarksburg, WV 26301

(304) 622-4796

**Well:** M.W. Spencer No.8 \_ **API** \_\_\_\_\_ 47-095- 1280

Latitude: 39°25'31.3" UTM Coordinates (NAD 1983)

Longitude: 80°47'22.2" Northing: 4,364,011

**Elevation:** 1,102 **Easting:** 518,134

TD: 2,161 Casing Record

**Producing Formation:** Big Injun Not Available

 Spud Date:
 1/2/1897

 Completion Date:
 2/2/1897

Well Log

Not Available

Received

NOV

Office of Oil and Gas

Office of Oil and Oi

WW-4A	1
Revised 6-07	2/
Surface Owner Copy	600
143	500
Ch	100

1)	Date:	Septembe	r 12	, 2013		
2)	Operator's Wel	l Number				
		M.W. Spe	ncer	No.8		
3)	API Well No:	47	-	095	•	1280
		Ctata		Country		Donnelle

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Own	ner(s) to be served:		5) (a) Coa	l Operator:	
	(a) Name	Alva D. Spencer Estate	V	Name	NA	
	Address	C/O Marcia Mronzinski		Address	s	
		3471 Maradee Ct.				
	(b) Name	Farwell, MI 48622		(b) Coa	al Owner(s) with Declaration	
	Address			Name	NA	
				Address	S	
	(c) Name					
	Address			Name		
				Address		
					NA	
6)	Inspector	Joe Taylor		(c) Coa	al Lessee with Declaration	
	Address	497 Claylick Road		Name		
		Ripley, WV 25271		Address	S	
	Telephone	304-380-7469			0.5	

#### TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- 1) The Application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- 2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the intructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas. West Virginia Department of Environmental Protection, with respect to the well at the

	Well Operator	Gastar Exploration, Ltd.
	Ву:	huch his Gran Mike McCown
	Its: Address	COO & Designated Agent 229 W. Main St., Suite 301
		Clarksburg, WV 26301
	Telephone	(304) 622-4796
Subscribed and sworn before me this	day of ) O	ctobe, 2013 NOV or oil and Gas
	Sand h	Notary Public
My Commision Expires	June 11	2020

#### SURFACE OWNER WAIVER

Operator's Well Number M.W. Spencer No.8 47- 095- 1280

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective:
- 3) Damage would occur to publicly owned lands or resources:
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

#### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned wo objection to a permit being issued on those materials.	rk described in these materials,	and I have no
FOR EXECUTION BY A NATURAL PERSON	FUR EXECUTION BY A CU	RPORATION,
ETC.	tice of Un	•
HYakura Mana Date # 52013 Name	Office 142013	, of
Signature By	tmer	The ChiCIT
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, Departi Pr	O <sup>C</sup> Date
	Signature Environmental Pr	
•	Signature Signature	Date
	Ella	12/13/2013

Form WW-9

	Page_	3	of	3
API N	ımber 47-	095	-	1280
Operator's Well No.	M.W. S	pencer	No.S	

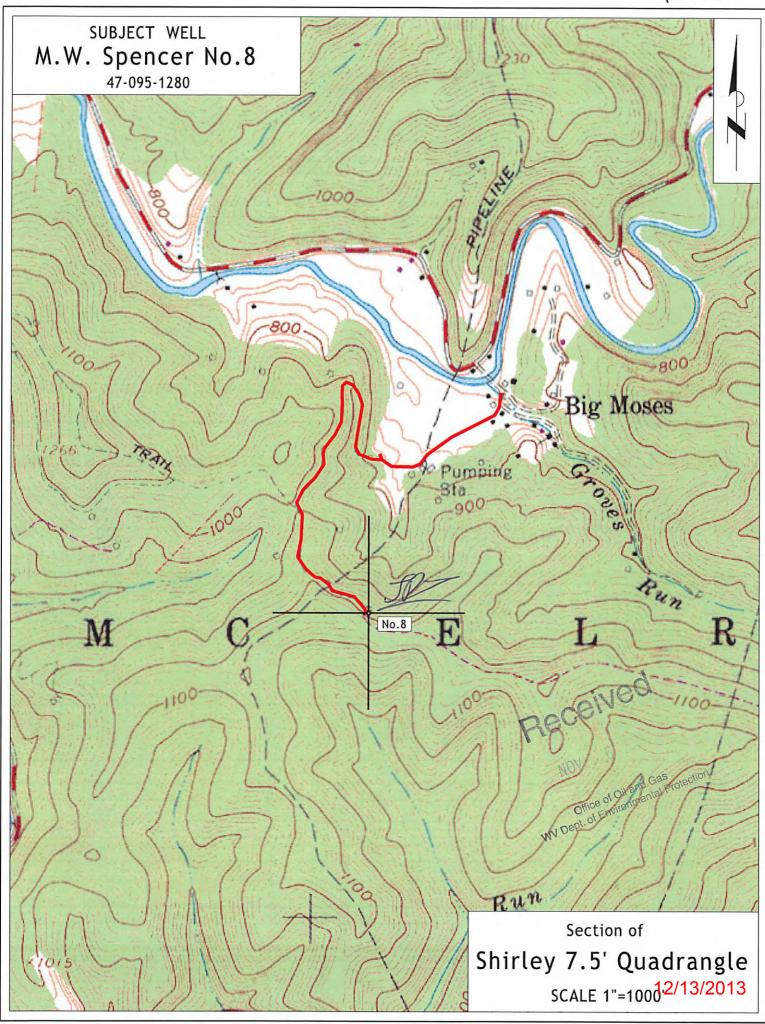
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Ex	ploration, Ltd			c	P Code	494487685
Watershed	Indian C	eek			Quadrangle_	Shir	ley 7.5'
Elevation	1102'	County	Tyle	er	District	Мо	:Elroy
Description (	of anticipated Pit Waste:	Fluids enco	untered in plu	igging subje	ect well		
Do you antic	ipate more than 5,000 bbls	of water to comp	olete the proposed	l well work?	Yes	No	X
Will a synth	etic liner be used in pit?	Yes	If so, what mi	1.?	20		
Proposed Dis	Reuse (at A	ation d Injection (UIC PI Number	Permit Number rm WW-9 for disp	posal location)			<u>)</u> )
Additives to	lium anticipated for this wo	ll? Air, fresh wa ynthetic, petrole	um, etc.		NA		
	- If left in pit and plan to s - Landfill or offsite name/		dium will be used	? Cement, lin	ne, sawdust	N.	4
that the provapplicable la this applicat	gust 1, 2005, by the Office visions of the permit are en aw or regulation can lead to I certify under penalty of I ion form and all attachment the information, I believe submitting false information	forceable by law. enforcement act aw that I have po ts thereto and the that the informa	Violations of any ion. ersonally examin at, based on my tion is true, accur	term or condi ed and am fan inquiry of thos rate and compl	tion of the gener niliar with the im e individuals im lete. I am aware	al permit a formation s mediately i	nd/or other submitted on responsible are significant
Company C	Official Signature		Broke .	M. Cum	•		<u>anived</u>
Company C	Official (Typed Name)		Mike McCov	vn		had gra	
Company C	Official Title	<u> </u>	COO & Desi	gnated Age	ent	, ,	<del>0</del>
Subscribed	and sworn before me th	)s 44h	day of	ctoher	2013	WV Dep Votary Pu	<sub>Office</sub> of Oil and Gas office of Oil and Gas t. of Erwironmental Protection blic
My commis	sion expires	June	11, 2	020			
Form WW-	9		,			DAV	OFFICIAL SEAL Public, State of Yest Virginia PiD W. PERKINSON PERK

T		1
- 1	Legen	lu

Property Boundary	A A A	Diversion	
Road		Spring	<b>○</b> →
Existing Fence	— x — x — x —	Wet Spot	7
Planned Fence	//	Drain Pipe	12 >
Stream	1 - 7	Waterway	$\longleftrightarrow$ $\longleftrightarrow$ $\longleftrightarrow$
Open Ditch	>	Cross Drain	77777777777
Rock	00000000000000000000000000000000000000	Filter Strip	xxxxxxxxxx
	000	Pit: Cut Walls	Commission
North	N		
Buildings		Pit: Compacted Fill Walls	<del></del>
Water Wells	$\overline{\mathbb{W}}$		777777
Drill Site	$\oplus$	Area of Land Application of Pit Waste	
		J	
	Lime         2         Tons/Acro           Fertilizer (10-20-20 or Equivalent)         Mulch         Straw         2         Tons/Acro	ons/Acre	Prevegetation pH6.5 re (500 lbs. Minimum)
	SEEI	O MIXTURES	
0.15	Area I (Location)		Area II (Road)
Seed Type Tall Fescue	Lbs/Ac. 40	Seed Ty Tall Fest	
Ladino Clover	5	Ladino C	
		-	Dece.
			6
	ation, pit and proposed area for land appl involved 7.5' topographic sheet.	ication	NOV Ortice of Oil and Gas Protection Ortice of Oil and Gas Protection
DI L	11001		Abr
Plan Approved by:	July El		
Comments:	/		<del></del>
Title: Zns	pacter		Date: 10-28-13
Field Reviewed?	Yes	-	No



## West Virginia Department of Environmental Protection Office of Oil & Gas

## **WELL LOCATION FORM: GPS**

API: 47- 095 - 1280	WELL NO: No.8
FARM NAME: M.W. Spencer	
RESPONSIBLE PARTY NAME: Gastar Exploration, Ltd.	
COUNTY: Tyler D	DISTRICT: McElroy
QUADRANGLE: Shirley 7.5'	
SURFACE OWNER: Alva D. Spencer Estate	
ROYALTY OWNER: Alva D. Spencer Estate	
UTM GPS NORTHING: 4,364,011 (NAD 83)	
UTM GPS EASTING: 518,134 (NAD 83) GPS I	ELEVATION: 336 m. 1102 (27.
Oil & Gas will not accept GPS coordinates that do not meet the followin  1. Datum: NAD 1983, Zone:17 North, Coordinate Units: n height above mean sea level (MSL) - meters.  2. Accuracy to Datum - 3.05 meters  3. Data Collection Method:  Survey Grade GPS Post Processed Differential Real-Time Differential	
Mapping Grade GPS X Post Processed Differential X Real-Time Differential	140
I the undersigned, hereby certify this data is correct to the best of my know belief and shows all the information required by law and the regulations prescribed by the Office of Oil and Gas.	owledge and Office of Oil and Gas owledge and Office of Environmental Protection issued andw Dept. of Environmental
	COO & Designated Agent
Signature Title	
September 12, 2013  Date	